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# SEQUENCE LISTING

<110> HAMILTON et al.

<120> METHOD OF DETECTING INTERACTIONS BETWEEN PROTEINS, PEPTIDES OR LIBRARIES THEREOF USING FUSION PROTEINS

<130> 3759-0122P

<140> US 09/853,897

<141> 2001-05-14

<150> US 60/203,712

<151> 2000-05-12

<160> 9

<170> PatentIn version 3.1

<210> 1

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Designed leucine zipper (NZ)

<400> 1

Ala	Leu	Lys	Lys	Glu	Leu	Gln	Ala	Asn	Lys	Lys	Glu	Leu	Ala	Gln	Leu
1				5					10					15	

Lys	Trp	Glu	Leu	Gln	Ala	Leu	Lys	Lys	Glu	Leu	Ala	Gln
			20				25					

<210> 2

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Designed leucine zipper (CZ)

<400> 2

Glu	Gln	Leu	Glu	Lys	Lys	Leu	Gln	Ala	Leu	Glu	Lys	Lys	Leu	Ala	Gln
1				5					10					15	

Leu	Glu	Trp	Lys	Asn	Gln	Ala	Leu	Glu	Lys	Lys	Leu	Ala	Gln
			20					25					30

<210> 3

<211> 162

<212> PRT  
<213> Artificial Sequence

<220>

<223> Synthetic peptide sequence NGFP

<400> 3

Met Ala Ser Lys Gly Glu Glu Leu Phe Thr Gly Val Val Pro Leu Leu  
1 5 10 15

Val Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly  
20 25 30

Glu Gly Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys  
35 40 45

Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Leu Thr Val Thr Thr Leu  
50 55 60

Cys Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Arg  
65 70 75 80

His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg  
85 90 95

Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val  
100 105 110

Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile  
115 120 125

Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn  
130 135 140

Tyr Asn His Asn Val Leu Ile Met Ala Asp Lys Gln Gly Gly Ser Gly  
145 150 155 160

Ser Gly

<210> 4

<211> 192

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide sequence NZGFP

<400> 4

Met Ala Ser Lys Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu  
1 5 10 15

Val Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly  
20 25 30

Glu Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile  
35 40 45

Cys Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr  
50 55 60

Leu Cys Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys  
65 70 75 80

Arg His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu  
85 90 95

Arg Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu  
100 105 110

Val Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly  
115 120 125

Ile Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr  
130 135 140

Asn Tyr Asn His Asn Val Leu Ile Met Ala Asp Lys Gln Gly Gly Ser  
145 150 155 160

Gly Ser Gly Ala Leu Lys Lys Glu Leu Gln Ala Asn Lys Lys Glu Leu  
165 170 175

Ala Gln Leu Phe Trp Glu Leu Gln Ala Leu Lys Lys Glu Leu Ala Gln  
180 185 190

<210> 5

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide sequence CGFP

<400> 5

Met Ala Ser Gly Gly Ser Gly Lys Asn Gly Ile Lys Val Asn Phe Lys  
1 5 10 15

Thr His Asn Ile Glu Asp Gly Ser Val Gln Leu Ala Asp His Tyr Gln  
20 25 30

Gln Asn Thr Pro Ile Gly Asp Gly Pro Val Leu Leu Pro Asp Asn His  
35 40 45

Tyr Leu Ser Thr Gln Ser Ala Leu Ser Lys Asp Pro Asn Glu Lys Arg  
50 55 60

Asp His Met Val Leu Leu Glu Phe Val Thr Ala Ala Gly Ile Thr His  
65 70 75 80

Gly Met Asp Glu Leu Tyr Asn  
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<210> 6

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide sequence CZGFP

<400> 6

Met Ala Ser Glu Gln Leu Glu Lys Lys Leu Gln Ala Leu Glu Lys Lys  
1 5 10 15

Leu Ala Gln Leu Glu Trp Lys Asn Gln Ala Leu Glu Lys Lys Leu Ala  
20 25 30

Gln Gly Gly Ser Gly Lys Asn Gly Ile Lys Val Asn Phe Lys Thr Arg  
35 40 45

His Asn Ile Glu Asp Gly Ser Val Gln Leu Ala Asp His Tyr Gln Gln  
50 55 60

Asn Thr Pro Ile Gly Asp Gly Pro Val Leu Leu Pro Asp Asn His Tyr  
65 70 75 80

Leu Ser Thr Gln Ser Ala Leu Ser Lys Asp Pro Asn Glu Lys Arg Asp  
85 90 95

His Met Val Leu Leu Glu Phe Val Thr Ala Ala Gly Ile Thr His Gly  
100 105 110

Met Asp Glu Leu Tyr Asn  
115

<210> 7  
<211> 29  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Leucine zipper KK

<400> 7  
Ala Gln Leu Lys Glu Lys Leu Gln Ala Leu Lys Glu Lys Leu Ala Gln  
1 5 10 15

Lys Trp Lys Leu Asn Ala Leu Lys Glu Lys Leu Ala Gln  
20 25

<210> 8  
<211> 29  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Leucine zipper EE

<400> 8  
Ala Leu Glu Lys Glu Leu Gln Ala Asn Glu Lys Glu Leu Ala Gln Leu  
1 5 10 15

Glu Trp Glu Leu Gln Ala Leu Glu Lys Glu Leu Ala Gln  
20 25

<210> 9  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic sequence used as an insert between adjacent residues at 10  
internal insertion sites

<400> 9

Leu Glu Glu Phe Gly Ser

1

5